

Title (en)  
DOOR DAMPER BUFFER

Title (de)  
TÜRDÄMPFER

Title (fr)  
AMORTISSEUR DE PORTE

Publication  
**EP 2546443 A1 20130116 (EN)**

Application  
**EP 10847526 A 20100312**

Priority  
KR 2010001566 W 20100312

Abstract (en)  
The present invention relates to a door damper buffer which can quickly switch the flow of a fluid filled therein to quickly and precisely perform a buffering action. The present invention includes a body 52 in which fluid is filled and in which a spring 57 is inserted; a piston member 54 inserted into the body 52 and elastically supported by the spring 57; and an actuating pin 56 coupled to the piston member 54, wherein the piston member 54 includes: a piston 542 provided with a plurality of recesses 5423 in an outer peripheral surface thereof to enable the fluid to move; a disk 544 disposed at a front end portion of the piston 542 and coupled so as to be movable along the actuating pin 56; and a head 546 provided with a plurality of steps 5469 and recesses 5468 in an outer peripheral surface thereof so as to enable the fluid to be transferred.

IPC 8 full level  
**E05F 3/14** (2006.01); **E05F 3/04** (2006.01); **F16F 9/10** (2006.01)

CPC (source: EP)  
**E05F 5/006** (2013.01); **F16F 9/348** (2013.01); **F16F 9/585** (2013.01); **E05F 5/10** (2013.01); **E05Y 2201/21** (2013.01); **E05Y 2201/256** (2013.01); **E05Y 2201/264** (2013.01); **E05Y 2900/20** (2013.01); **F16F 9/516** (2013.01)

Citation (search report)  
See references of WO 2011111892A1

Cited by  
CN104421370A; CN104675908A; CN107461103A; CN107476697A; CN112943022A; EP3214248A1; US11230869B2; CN110869573A; JP2020525741A; RU2762652C2; AU2018293625B2; WO2019002130A1; WO2021144177A1; US8857579B2; US10145162B2; EP2488771B1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**EP 2546443 A1 20130116**; WO 2011111892 A1 20110915

DOCDB simple family (application)  
**EP 10847526 A 20100312**; KR 2010001566 W 20100312